商品编号：6001R-950

欧式Z-Wave红外转换器(ZW2IR)

使用说明书

（注：本中文说明书针对下文列出的系列网关，但也适用其它Z-Wave系列网关）

1、将电池装入设备，然后将后盖拧上螺丝，再将设备产品合并在一起

2、添加设备至网关（网关为Z-Wave系列的hub/ihublite/vera/vera2）（图1-1）

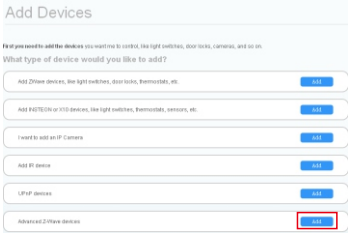

图1-1

图1-2

“Include”为添加设备

“Exclude”为删除设备

选择“Include”，点击按钮“go”（如图）

出现按钮"Add/Remove:Add new devices now..."（如图）

按空调控制上的“PROG”按钮。如(图3）所示

成功添加至网关，出现如（图2）所示。

图2

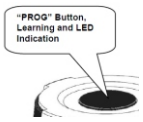

图3

设置参数

点击右上角设置按钮如图 进入如（图4）参数设置界面

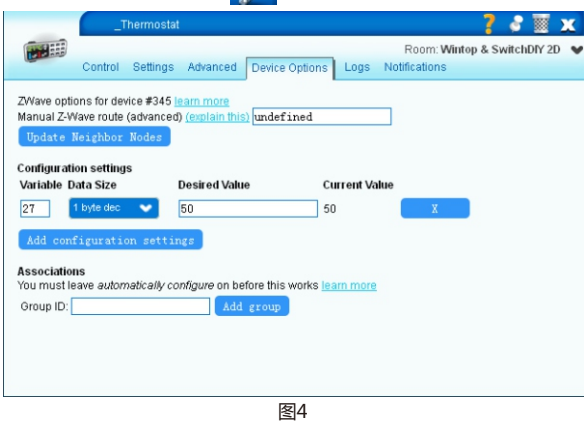

图4

点击按钮“Add configuration settings” Add configuration settings

设置如（图4），ID填写“27”，字节选择“1 Byte dec”，Desired Vaule请参考“Code List”内的各品牌空调的Code。

保存。

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可控空调类型及英文说明书请见附件

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产品保修单

您的姓名: _____

您的电话: _____

您的地址: _____

购买时间: _____

产品问题: _____

可控空调类型及代码

ZW-IR V1.0 Code List

Brand(EN)	8377 Code list
ACURA	94
Aikira	174
Aircon	42
Aircon	57
Aircon	58
Apton	67
AUX	21
AUX	189
AUX	190
BEAVER	184
Carrier	88
Carrier	96
Carrier	97
Carrier	98
Carrier	99
Carrier	100
Carrier	101
Carrier	102
Carrier	103
Carrier	104
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Carrier	106
Carrier	107
Carrier	108
Carrier	109
Carrier	110
Carrier	111
Carrier	112
Chang Hong	5
Chang Hong	121
Chang Hong	122
Chang Hong	123
Chang Hong	124
Chang Hong	125
Chang Hong	126
Chang Hong	127
Chang Hong	134
Chang Hong	135
Chang Hong	136
Chang Hong	148
Chang Hong	178
Chang Hong	179
Chang Hong	180
Chigo	42
Chigo	57
Chigo	58

Chigo	186
Chuanhua	37
Chuanhua	113
Chunlan	19
Chunlan	150
Chunlan	151
Conrowa	37
Conrowa	70
Conrowa	113
Daewoo	70
Daikin	1
Daikin	2
Daikin	6
Daikin	11
Daikin	26
Daikin	29
Daikin	30
Daikin	31
Daikin	32
Daikin	33
Daikin	50
Daikin	162
Daikin	163
Daikin	211
Fujitsu	16
Fujitsu	25
Fujitsu	27
Fujitsu	34
Fujitsu	158
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Fujitsu	199
Fujitsu	200
Fujitsu	201
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Panda	28
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Samsung	49
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Samsung	149

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Schneider Electric	42
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SHARP	8
SHARP	66
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SHARP	144
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SHARP	157
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SHARP	214
SHARP	215
SHARP	216
SHARP	217
Shinco	22
Shinco	85
SHINING	70
Siemens	46

Tadiran	54
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Toshiba	71
Toshiba	175
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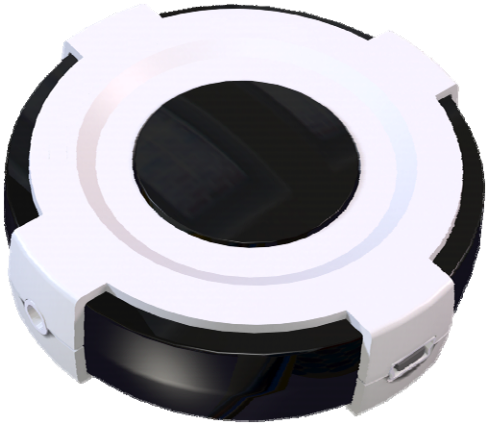
Toshiba	224
Toshiba	225
Toshiba	226
Trane	3
Trane	173
Trane	174
VOLTAS	4
Xileng	150
YORK	15
YORK	89
Yutu	70

English version



ZW-IR

(Z-Wave-to-AC IR Extender)

Firmware Version: V1.0

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ZW-IR Extender
(Z-Wave-to-AC IR Extender)
Operating Instructions

Introduction

The ZW-IR is a Z-Wave to IR extender for air-conditioner (AC), (Figure 1), it works with any Z-Wave compliant gateway or controller by translating Z-Wave Thermostat Commands to AC IR control code. User can select the IR code from the built-in code library of ZW-IR, or use learning function, by using Z-Wave Configuration Commands according to the parameter table. ZW-IR is also with built-in temperature sensor which allows gateway or controller to get the current room temperature.

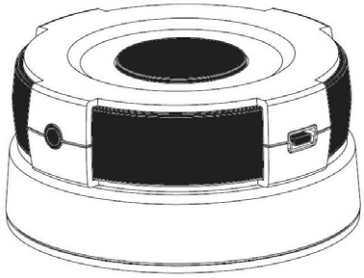


Figure 1 ZW-IR

ZW-IR can be configured as either "F**requently Listening Routing Slaves**" (FLiRS) or "**Always Listening**" node after exclusion process (before inclusion process).

FLiRS node type is for battery operated applications and it will enter sleep mode frequently in order to conserve battery consumption that can provide the flexibility if there is out of 5Vdc power source. Also, user can place the unit in anywhere at home.

Always Listening node type is for the needs of fast response application. It works with 5Vdc power source. Always Listening node can act as a repeater, which will re-transmit the RF signal to ensure that the signal is received by its intended destination by routing the signal around obstacle and radio dead spots.

ZW-IR supports Network Wide Inclusion (NWI) and Explore Frames. It also supports Z-Wave networks with multiple gateways and controllers. Like every Z-Wave accessory, user will need to include the

ZW-IR into their Z-Wave network using the primary controller. Then, the user can use either the primary controller or secondary controller to configure and setup the ZW-IR using Z-Wave's configuration command class. Once the configuration and setup is complete, the controller can use Z-Wave "Thermostat commands class" to control their IR-controlled air-conditioner through the ZW-IR.

Controller and Gateway Requirements

The ZW-IR can work with any Z-Wave compliant controller or gateway supporting the following Z-Wave commands.

- Configuration Command Class
- Multilevel Sensor Command Class
- Thermostat Command Class
  - Thermostat Mode Command Class
  - Thermostat Fan Mode Command Class
  - Thermostat Set-point Command Class

Built-in IR code library

The Built-in IR code library supports most of the popular air conditioner brands in the market. Z-Wave gateway and controller does not need to have any IR control code knowledge. User can use Z-Wave controller or gateway to select the IR code according to the ZW-IR code list separately provided through Z-Wave configuration command.

Glossary

Device or Node	Devices and nodes are all terms to describe an individual Z-Wave device. These are all interchangeable when setting up your Z-Wave network.
Inclusion	Add a Z-Wave device to the network.
Exclusion	Delete a Z-Wave device from the network.
Remove	To take a device out of a group, scene or association group while that device still exists in the same Z-Wave network.
Z-Wave Network	A collection of Z-Wave devices is controlled by primary and secondary controllers operating on the same system. A Z-Wave network has its own unique ID code so that controllers not in the network cannot control the system.
Primary Controller	The first controller is used to set up your devices and network. Only the Primary Controller can be used to include or delete devices from a network. It is recommended that you mark the primary controller for each network for ease in modifying your network.
Secondary Controller	A controller containing network information about other devices within the network and is used for controlling devices. Secondary controller is created from the Primary Controller and cannot include or delete devices to the network.
Inclusion Controller	A controller containing network information about other devices within the network and is used for controlling devices. Inclusion controller is created from the Primary Controller in a SIS enabled Z-Wave network. Inclusion Controllers have the ability to add and remove devices from the network.

ZW-IR Operations

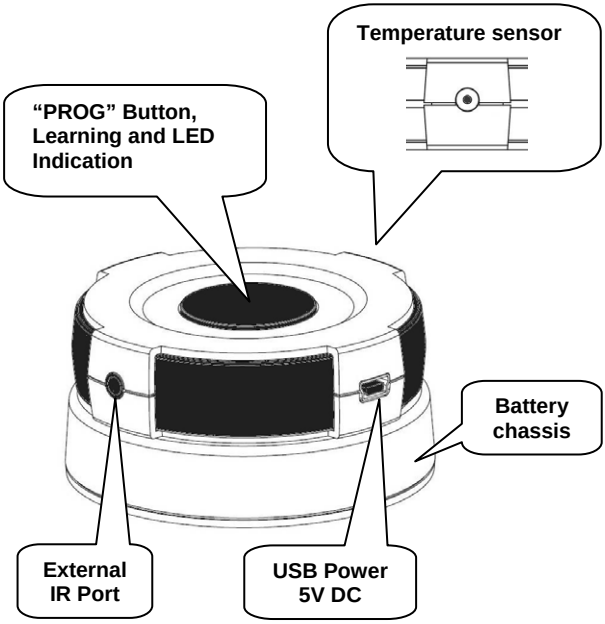
Before using the ZW-IR, please read the [INSTALLATION] if you need to mount the ZW-IR to a wall. Power up the ZW-IR by the USB Power 5Vdc or Dry battery AAA x 3pcs.

- Plug-in 5Vdc power into the USB socket if operated at Always Listening mode. Or
- Install 3xAAA batteries if operated at FLiRS mode.
- Please refer to the section of [MOUNTING PROCEDURE].
- Remove the battery cover on the back of your ZW-IR battery chassis.
- Mount the battery cover into the main unit with 2 screws.
- Check the polarity of the batteries and the "+/-" marks inside the battery compartment.
- Insert the batteries.
- Push the battery cover and main unit back in place.

ⓘ CAUTION (battery and power adaptor safety)

- Use new batteries of the recommended type and size only.
- Never mix used and new batteries together.
- To avoid chemical leaks, remove batteries from the ZW-IR if you do not intend to use the remote for an extended period of time.
- Dispose of used batteries properly; do not burn or bury them.

(Please carefully read through the following then store the manual for future reference.)



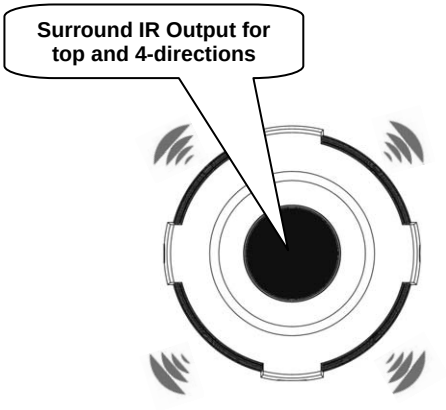


Figure 2 PROG Key and IR Port of ZW-IR

Z-Wave Remote Control

1) Select your operation mode; please refer to “Listening Mode” section.
2) Include or Exclude the unit from the existing Z-Wave home control network with your primary controller.
   - Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.
   - When prompted by your primary controller, click once on the PROG button.
   - The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
3) User can use either primary controller or secondary controller (should support configuration command class) to setup the ZW-IR AC code by the parameter 27 (IR code number for built-in code library), please refer to code list for the parameter value then setup your AC control code.
4) Once the configuration and setup were completed, the controller can use Z-Wave “Thermostat commands class” to control their IR-controlled air-conditioner with the ZW-IR.
5) You can record down your device code under the below table for future reference after setting up the ZW-IR correctly.

AC device programmed to your Z ² ℼLW
Code no.:

Z²πLW Information

How to get the NIF "Node Information Frame" on ZW-IR (Inclusion)

Step	Setup Key	LED Indication Status on ZW-IR
1	Press the PROG button on the ZW-IR	• LED flashes once then stay off (ZW-IR will report the supported command class)

Parameter No. and Parameter Value of configuration command

Parameter Number	Definitions	Parameter Value
25 (0x19)	Indicate a location for IR code learning and start learning	0-22 (0x00 – 0x16)
26 (0x1A)	Learning status register Note: The status value 0x01 and 0x04 will be reset to 0 when the ZW-IR receive a get command to this parameter	**0x00**: Idle - this IR channel is idle (default) **0x01**: OK - the latest learning process successful and completed **0x02**: Learning - the ZW-IR is busy processing previous learning request **0x04**: Failed - the latest learning request failed
27 (0x1B)	IR code number for built-in code library	Refer "Code list" for details
28 (0x1C)	External IR Emitter power level	**0x00**: normal power mode **0xFF**: high power mode (default)
32 (0x20)	Surround IR control - to avoid the IR interference by disabling the surrounding IR emitter if 2	**0x00**: disable Surround IR Emitters **0xFF**: enable Surround IR Emitters

	air-conditioners in a room are used - extend the battery life by disabling the Surround IR Emitters	(default)
33 (0x21)	AC function "SWING" control	**0x00:** SWING OFF **0x01:** SWING AUTO (Default)
35 (0x23)	Learn location status	Bit mask = 1, learn location has learn data. Otherwise, Bit mask = 0 See figure "**Learn location**" as below

Parameter Table

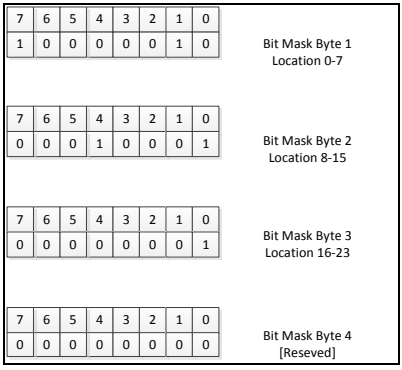


Figure: Learn location

On the above example, location 1, 7, 8, 12, 16 has learned data.

ⓘ Mapping Information

- BASIC Set Value 0x00 will map to Thermostat mode Off 0x00.
- BASIC set Value 0xFF will map to Thermostat mode Resume 0x05.

Listening Mode Change (default mode is FLiRS)

ZW-IR can be configured as either "F**req**ŭ**entlȅ Listeỳing Routing Slaves**" (FLiRS) or "**Always Listening**" node after exclusion process.

FLiRS node type is targeted for battery operated applications and it will enter sleep mode frequently in order to conserve battery consumption.

Always Listening node type is targeted for the needs of required a fast response application.

Important:
It is not allowed to changing Z ² ℼLw opelⅼatȉoy˝moŘe without exclusion process (do not change Z ² ℼLw operation mode while ½ ² -Lw is included in a neŭw2rk).

How to switch ZW-IR listening mode from "Always Listening " to "FLiRS" (or vice verse)

Step	Setup Key	LED Indication Status on ZW-IR
1	Press and hold the PROG button on the ZW-IR for around 4 seconds	• LED stay off
2	Release the button and then press the PROG button 3 times within 2 seconds	• LED flashes twice then stay off (ZW-IR set in FLiRS mode) OR • LED flashes four times then stay off (ZW-IR set in Always Listening mode)

IR Code Selection

ZW-IR is with built-in IR AC code library, user may select the IR code using Configuration Command Class.

Step	Setup Key	LED Indication Status on ZW-IR

1	After included ZW-IR to Z-Wave controller or Gateway, go to device setup for configuration on gateway or controller.	-
2	Input parameter number “27” and parameter value (please look up the code list of ZW-IR according to your AC brand). Then complete the configuration process.	-
3	Press the PROG button on the ZW-IR. (this step apply when using portable controller for set up, if using gateway, user can skip this step)	• LED flashes once when ZW-IR receives the configuration setting
4	Go back to the control page of ZW-IR on the gateway and try the function such as (cool, temperature set). If the air conditioner does not respond to the command you set on Gateway (Cool, Heat, Auto, Temperature set etc.), repeat step 2 and 3 to select the next code on code list.	• LED flashes once every time it receives a command from gateway

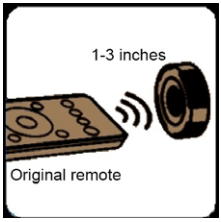
ⓘ Important Information

- Different brand or model of air conditioner has different function. For example, some air conditioner only support temperature set from 18°C-30°C, if user set 17 °C on gateway, ZW-IR will not respond.
- There are more than 1 code for each brand, some does not support heat, if user selected a code that does not support heat but the original air conditioner supports heat function, please continue to try next code until the correct one is selected.
- If none of the code works on the target air conditioner, or the air conditioner brand is not shown on the code list, please select code “000” for IR code learning (refer to instruction of IR Code Learning)

IR Code Learning

In case none of the code on the code list works for the targeted air conditioner, user can use IR code learning function using configuration according to below steps:

Step	Setup Key	LED Indication Status on ZW-IR
1	Go to configuration setting page on the gateway or ZW-IR and input parameter number “27” and parameter value “000” to select the dedicated AC code number “000” for learning.	• LED flashes once when ZW-IR receives the configuration setting
2	Look up below mapping table (value 0-22) for learning, and decide the IR setting you intent to learn next. For example “22°C, cool” which matches value “5” (IR code to be learnt will locate at “5” in ZW-IR). Set your original air conditioner remote at “22°C, cool” and turn it off. (Besides temperature and mode, you may set other desired settings, such as Fan, Swing etc.)	-
3	Go to configuration setting page on the gateway and input parameter number “25” and parameter value “5” (in this case).	-
4	Press the PROG button on the ZW-IR. (this step apply when using portable controller for set up, if using gateway, user can skip this step)	• LED flashes once when ZW-IR receives the configuration setting • ZW-IR is ready to learn
5	Aim the original air conditioner remote at ZW-IR according to below position within 1-3 inches	LED flashes twice if learning is successful. LED flashes 6 times if it’s failed.

	 Press “power on” button on the original air conditioner remote. If the learning is failed, repeat step 3 to step 5. To learn next IR code, repeat step 2 to step 5.	

ⓘ When you encounter problem, check followings:

- Make sure your original remote is switched to power off.
- Press the key on original remote before learning mode timeout.
- Keep away from incandescent light and direct sunlight during learning.
- Make sure IR Transmitter of your original remote alight with learning diode of ZW-IR, you may also slight adjust closer or further away the distance of two devices. Some of remotes the IR transmitter in hidden behind lens and may not installed center of remote.
- Make sure the power is good on both devices, especially the original remote. Use fresh batteries.

IR Learning Mapping Table (Parameter number 25)

Parameter Value (Location)	Thermostat command & IR setting	
0	OFF	
1	ON (resume)	
2	19°C cool	
3	20°C cool	
4	21°C cool	
5	22°C cool	
6	23°C cool	
7	24°C cool	
8	25°C cool	
9	26°C cool	Default Cool
10	27°C cool	
11	28°C cool	
12	19°C heat	
13	20°C heat	
14	21°C heat	
15	22°C heat	Default Heat
16	23°C heat	
17	24°C heat	
18	25° C heat	
19	26°C heat	
20	27°C heat	
21	28°C heat	
22	Dry mode	

ⓘ Important Information

After all learning completed, user can go back to the ZW-IR control page on the gateway for normal operation.

- On the gateway UI, user can only use the temperature range from the mapping table, OFF, ON(RESUME), COOL, HEAT, DRY, If user press the button of FAN, or other function on the gateway UI which is not listed in above table, ZW-IR will not respond.
- If user only learnt ON, OFF, or part of the settings according to the above table, ZW-IR will send the learnt data to the air conditioner only. For example, user only learnt ON, OFF, 22°C Cool, 24°C Heat, ZW-IR will not send IR data to air conditioner if user set 27°C Cool on the gateway.
- ZW-IR has been pre-defined default cool at 26°C, default heat at 22°C, when user press Cool on gateway without setting temperature, ZW-IR will send the learnt data of 26°C Cool to air conditioner. When user press Heat on gateway without setting temperature, ZW-IR will send the learnt data of 22°C Heat to air conditioner.
- There is only one code for dry mode, user can set it at any preferred temperature.
- User can still use gateway to set up scene and schedule with ZW-IR, for example, to have AC turn on at 23°C every day at 7pm, 25°C at 11pm. Just make sure the set code is learnt.
- The learning mapping table is for split air conditioner which remote control is with LCD display. For window type air conditioner (which remote control is without LCD display), the mapping table with temperatures do not apply, due to different type of IR control protocol. However, user may still use the OFF, or ON/RESUME, DRY key for learning. (Because the POWER key on the original remote without LCD display is toggle, user can choose either ON key, or OFF key to learn Power key, after learning is done, press once to turn on the air conditioner if the air conditioner is OFF, press once to turn off if the air conditioner is ON)

Reset Z²ΠW to factory default

Press and hold "PROG" button for 10seconds on ZW-IR. The LED will flash twice until reset process is completed.

Note: This reset step will not affect the operation mode of Z²ΠW, user should refer to "Listening Mode" section if you want to change the operation mode.

ⓘ Information

- If you are using Gateway or other Z-wave controllers to operate ZW-IR, Please follow the instruction from the gateway or other controller.
- You can check the specifications in the manual of your ZW-IR.

INSTALLATION

MOUNTING THE ZW-IR TO A WALL

MOUNTING LOCATION PRECAUTIONS

- Before mounting, check the material and structure of the mounting location. If the location does not have the proper material or structure, the ZW-IR can fall and cause injuries.
- Use commercial items that best match the wall structure and material for the screws and other fixtures.
- Do not mount near a kitchen counter, humidifier, or other location in which it can be exposed to smoke or steam. Doing so could cause a fire or electrical shock.
- Do not mount in locations with high humidity or large amounts of dust. Doing so could cause a fire or electrical shock.
- Do not mount to locations subject to high temperatures, high humidity, or exposure to water. Doing so could cause a fire or electrical shock.
- Do not mount to locations subject to large amounts of vibration, large jolts, or large forces. These could cause an injury if the ZW-IR falls and breaks.

MOUNTING PROCEDURE PRECAUTIONS

- Do not modify parts or use the ZW-IR in ways other than its intended use. Doing so could cause the ZW-IR to fall and result in an injury.
- Be sure to fully check that there are no electrical wires or pipes inside the wall before mounting.
- If any of the screws are loose, the ZW-IR can fall and cause an injury. Do not mount the ZW-IR with the screws still loose.
- Check that the two screws mounted to the wall are fully inserted into the key holes of the ZW-IR. Otherwise, the ZW-IR can fall and cause an injury.
- Do not mount the ZW-IR so that it sticks out from the wall edge. It could get hit by people's bodies or objects and cause an injury.
- Supplier will not be liable for any accidents or injuries that occur due to improper mounting or handling.
- When mounting, be careful not to get your fingers pinched or injure your hands.

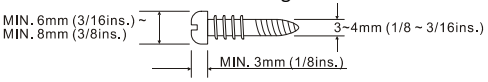
MOUNTING PROCEDURE

The ZW-IR can be mounted to a wall or wooden racks using the two key holes in the bottom case.

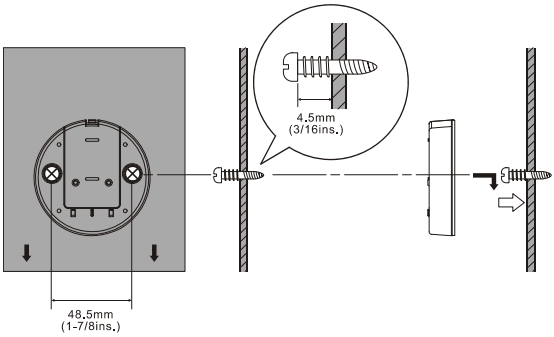
Note 1: The reception sensitivity varies depending on the antenna direction.

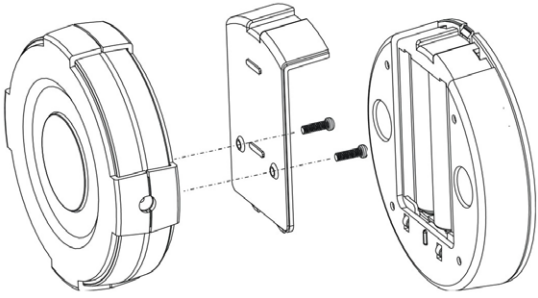
Note 2: Before mounting to a wall, be sure to fully read the precautions.

1. Obtain two screws suitable for the wall strength and material. The screw size is shown in the figure below.



2. The positional relationship between the ZW-IR key holes and the screw mounting positions are shown in the figure below.
   Note 1: When mounting the screws to the wall, leave a space between the wall and screw cap as shown in the figure.





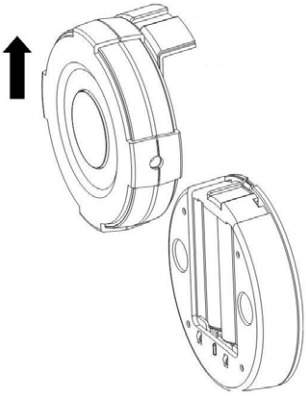
3. Insert the ZW-IR key holes onto the two screws mounted to the wall, and then slide downward to secure in place.

4. After securing the ZW-IR to the wall, connect the USB Power or batteries and IR emitter cable to the ZW-IR.

Note 1: Check that the ZW-IR is firmly secured to the wall.
Note 2: Insert USB plug or batteries and IR emitter cable so that they are firmly connected to the ZW-IR.

5. When removing the ZW-IR from the wall, lift up the ZW-IR, then pull it towards you.

6. Detach the main unit from the battery chassis by move toward to top position.



WIRELESS INFORMATION

Wireless range:

This device has an open-air line-of-sight transmission distance of 100 feet which complies with the Z-Wave standards. Performance can vary depending on the amount of objects in between Z-Wave devices such as walls and furniture. Every Z-Wave device set up in your network will act as a signal repeater allowing devices to talk to each other and find alternate routes in the case of a reception dead spot.

Radio frequency limitations:

1. Each wall or object (i.e.: refrigerator, bookshelf, large TV, etc) can reduce the maximum range of 65 feet by up to 25 to 30%.
2. Plasterboard and wooden walls block less of the radio signal then concrete, brick or tile walls which will have more of an effect on signal strength.
3. Wall mounted Z-Wave devices will also suffer a loss of range if they are housed in metal junction boxes which could also reduce the range by up to 25 to 30%.

MAINTENANCE

1 Do not expose your ZW-IR to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
2 Do not use old and new batteries together as old batteries tend to leak.
3 Do not use corrosive or abrasive cleansers on your ZW-IR.
4 Keep the unit dust free by wiping it with a soft, dry cloth.
5 Do not disassemble your ZW-IR, it contains no user-serviceable parts.

FREQUENTLY ASKED QUESTIONS

Z-Wave Frequently Asked Questions

Q Why won't my Z ² ℼW work with the ZℼWave deviÕeă I purchased from another country?

A Due to different countries regulations Z-Wave products from different regions are set to different frequencies. Before purchasing new devices make sure you have checked that the device is compatible in your region.

Q How do I know which product is compatible with my Z ² ℼW?

A ZW-IR should work with any Z-Wave controller or gateway that has control capability for "Thermostat" devices. You can check either the specifications in the manual of your ZW-IR.

Q Can I use the USB port to configure Z ² πLW?

A No, the mini USB port only provides an alternative option for user to power the ZW-IR.

Q Do I need an electrician to install Z-Wave products in my house?

A Installation can be simple. In some cases all you need to do is mount the ZW-IR to a wall or wooden racks. You also can place the ZW-IR on the desk and power it with dry cell batteries.

Q How to select my air-conditioner IR code from Z ² πLW?

A You should refer to the code list and look into the brand and try the code no. sequentially until you find the right code. You can record down your device code under the table for future reference after setting up the ZW-IR correctly.

Q Z ² πLW is workiy̆g on top and 4-diŴeŏtŀoy̆s IR output, but theŴe is no response on the IR emitter socket, why?

A ZW-IR supports two IR power levels for the external IR emitter to avoid saturation of the IR receiver. You can set the IR output power level by the Parameter Table value (normal or high power mode) or adjust the position of your external IR emitter.

Q Can I use 2 or more Z ² πLW in my house? What is the max. units if yes?

A Yes and it is very depend on the capability of gateway / controller. For example, gateway can supports up to 8, 16 or 32 ZW-IR in a network.

Q How to avoid the IR interference if I am using 2 identical air-conditioners in same location but want to control them individually?

A User can disable the Surround IR Output function, connect the external IR emitter and aim it at the specific AC unit. The operating distance of external IR emitter is around 100cm (High power mode) and 50cm (Low power mode) but it is also depends on the sensitivity of the IR receiver.

External IR emitter cable

Q Where can I keep up to date with the latest Z-Wave products for my house?

A You can keep up to date by visiting the www.wintop.com website where we will have information and ideas for using Z-Wave technology.

TECHNICAL SPECIFICATIONS

Model no.	(ZW-IR EU) (ZW-IR AU) (ZW-IR US) (ZW-IR IN)
RF frequency	868.4MHz (EU) 921.4MHz (AU) 908.4MHz (US) 865.22MHz (IN)
RF operating distance	up to 80ft outdoor line of sight, in unobstructed environment
IR operating distance	up to 25ft line of sight, in unobstructed environment
IR learning	Max. 23 commands
Temperature	Measurable range: 32 – 104 °F / 0 – 40 °C Operation: 0 - 40°C Storage: -20 - 60°C
Powered by	USB Power DC 5V 100mA or Dry battery AAA x 3pcs
Dimension	Dia.=70mm, T = 18mm (Main unit) Dia.=70mm, T = 15.5mm (Battery chassis)
Weight	35g (Battery chassis excluded) 60g (Battery chassis included) 90g (Main + Battery chassis + AAA x3pcs)

Z-Wave device type			
Basic Device Class: BASIC_TYPE_ROUTING_SLAVE			
Generic Device Class: GENERIC_TYPE_THERMOSTAT			
Specific Device Class: SPECIFIC_TYPE_THERMOSTAT_GENERAL_V2			
Z-Wave Command Class	**Version**	**Controlled**	**Supported**
COMMAND_CLASS_THERMOSTAT_MODE	Version2	NO	YES
COMMAND_CLASS_THERMOSTAT_SETPOINT	Version2	NO	YES
COMMAND_CLASS_THERMOSTAT_FAN_MODE	Version2	NO	YES
COMMAND_CLASS_BATTERY	Version1	NO	YES

COMMAND_CLASS_CONFIGURATION	Version1	NO	YES
COMMAND_CLASS_BASIC	Version1	NO	YES
COMMAND_CLASS_VERSION	Version1	NO	YES
COMMAND_CLASS_SENSOR_MULTILEVEL	Version1	NO	YES
COMMAND_CLASS_SWITCH_ALL	Version1	NO	YES
COMMAND_CLASS_MANUFACTURER_SPECIFIC	Version1	NO	YES

Supported function in Thermostat Command Class

Z-Wave command class	Description	Supported
Thermostat Fan mode	Auto/Auto Low	YES
	Low	YES
	Auto High	YES
	High	YES
	Auto Medium	YES
	Medium	YES
Thermostat Set point	Heating	YES
	Cooling	YES
	Furnace	NO
	Dry Air	YES
	Moist Air	NO
	Auto changeover	YES
	Energy Save heating	NO
	Energy Save cooling	NO
	Away heating	NO
Thermostat Mode	Off	YES
	Heat	YES
	Cool	YES
	Auto	YES
	Auxiliary/Emergency Heat	NO
	Resume	YES
	Fan only	YES
	Furnace	NO
	Dry Air	YES
	Moist Air	NO

	Auto Changeover	YES
	Energy Save Heat	NO
	Energy Save Cool	NO
	AWAY	NO

ZW-IR functions and Parameters summaries:

FUNCTIONS	AIR CONDITIONER FUNCTION	Z-WAVE COMMAND CLASS	Z-WAVE COMMAND	COMMAND PARAMETER
POWER	POWER ON	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 5
		COMMAND_CLASS_BASIC	BASIC_SET	VALUE = 0XFF
	POWER OFF	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 0
		COMMAND_CLASS_BASIC	BASIC_SET	VALUE = 0X00
MODE	AUTO	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 3
	COOL	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 2
	FAN	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 6
	HEAT	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 1
	DRY	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 8
	AUTO Changeover	COMMAND_CLASS_THERMOSTAT_MODE	THERMOSTAT_MODE_SET	MODE = 10
TEMPERATURE SETTING	HEAT mode Temperature	COMMAND_CLASS_THERMOSTAT_SETPOINT	THERMOSTAT_SETPOINT_SET	SETPOINT TYPE = 1,
				TEMPERATURE VALUE
	COOL mode Temperature			SETPOINT TYPE = 2,
				TEMPERATURE VALUE
	DRY mode Temperature			SETPOINT TYPE = 8,
				TEMPERATURE VALUE
	AUTO mode Temperature			SETPOINT TYPE = 10,
				TEMPERATURE VALUE
FAN SPEED	FAN AUTO	COMMAND_CLASS_THERMOSTAT_FAN_MODE, v1	THERMOSTAT_FAN_MODE_SET	FAN MODE = 0
		COMMAND_CLASS_THERMOSTAT_FAN_MODE, v2	THERMOSTAT_FAN_MODE_SET	FAN MODE = 0, 2, or 4

	FAN LOW (1/3)	COMMAND_CLASS_THERMOSTAT_FAN_MODE, v1	THERMOSTAT_FAN_MODE_SET	FAN MODE = 1
		COMMAND_CLASS_THERMOSTAT_FAN_MODE, v2	THERMOSTAT_FAN_MODE_SET	FAN MODE = 1
	FAN MID (2/3)	-	-	-
		COMMAND_CLASS_THERMOSTAT_FAN_MODE, v2	THERMOSTAT_FAN_MODE_SET	FAN MODE = 5
	FAN HIGH (3/3)	COMMAND_CLASS_THERMOSTAT_FAN_MODE, v1	THERMOSTAT_FAN_MODE_SET	FAN MODE = 3
		COMMAND_CLASS_THERMOSTAT_FAN_MODE, v2	THERMOSTAT_FAN_MODE_SET	FAN MODE = 3
SWING	SWING ON/ SWING AUTO	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 33 SIZE = 1 VALUE = 1
	SWING OFF	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 33 SIZE = 1, VALUE = 0
IR CODE SETUP		COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 27 SIZE = 2, VALUE = (CODE#)
IR TRANSMISSION POWER LEVEL	NORMAL POWER LEVEL	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 28 SIZE = 1, VALUE = 0
	HIGH POWER LEVEL	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 28 SIZE = 1, VALUE = 0xFF
FRONT IR TRANSMISSION CONTROL	DISABLE	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 32 SIZE = 1, VALUE = 0
	ENABLE	COMMAND_CLASS_CONFIGURATION	CONFIGURATION_SET	PARAMETER NO. = 32

				SIZE = 1, VALUE = 0xFF
BATTERY LEVEL		COMMAND_CLASS_BATTERY	BATTERY_GET	
VERSION		COMMAND_CLASS_VERSION	VERSION_GET	
MANUF'ER SPECIFIC		COMMAND_CLASS_MANUFACTURER_SPECIFIC	MANUFACTURER_SPECIFIC_GET	
TEMPERATURE SENSOR		COMMAND_CLASS_SENSOR_MULTILEVEL	SENSOR_MULTILEVEL_GET	

CHECKING ACCESSORIES

After opening the cover of the packing box, check that the following accessories are included.

- ZW-IR (Z-Wave-to-AC IR Extender)
- Screws (bottom cover) x 2pcs
- ZW-IR User Manual (download from our website)
- AC Code List (download from our website)

FCC NOTICE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

WARNINGS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- RISK OF FIRE

- RISK OF ELECTRICAL SHOCK

- RISK OF BURNS

- The socket-outlet shall be installed near the equipment and shall be easily accessible.

- Use only power supplies listed in the user instructions.

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.

CAUTION

- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

www.wintop.com